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A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

Foerste, Aug. F. *Pastinaca sativa* proterandrous. (Bot. gazette, Feb. 1882, v. 7, p. 24, 4 cm.)

Crit. rev., by W: Trelease, entitled "Pro-tandry of *Pastinaca*. (op. cit., Mch., p. 26-27, 9 cm.)

The flowers of *Pastinaca sativa* are said to be crossed by means of "small coleoptera and other insects." Other *umbelliferae* are said to be protogynous.

W: T. (3551)

Müller, Hermann. Ueber die befruchtung von *symplocarpus foetidus*. (Bot. jahresbericht . . . Just, 1879, v. 7, p. 137, 5 cm.)

Abstract of W: Trelease's "On the fertilization of *symplocarpus foetidus*" (Amer. nat., Sep. [22 Aug.] 1879, v. 13, p. 580-581) [Rec., 1794]. W: T. (3552)

Shimer, H: On a new genus in homoptera, section monomera. (Proc. Acad. nat. sci. Philad., Jan. 1867, [v. 19], p. 2-11, fig.)

Crit. rev. in B: D. Walsh's "The grape-leaf gall-louse, *Dactylosphaera vitifoliae*, Fitch" (1st ann. rept. acting state entom. Ill., 1858) (Trans. Ill. state hortic. soc. for 1867, 1868, n. s., v. 1; Appendix), p. 21-24.

Characterises the "supposed new family" *dactylosphaeridae*, and the new genera *dactylosphaera* [type: *d. globosum* n. sp.] and *viteus* [type: *femphigus vitifoliae* Fitch]; describes *d. globosum* n. sp. and *d. viteus* *vitifoliae*; describes the method used in observing these insects.

[*D. globosum* = *Phyllovera caryae-semen*; *d. viteus* *vitifoliae* = *Ph. vitifoliae*.] B: P. M. (3553)

Shimer, H: The wavy-striped flea-beetle. (Amer. nat., Dec. 1868, v. 1, p. 514-517, fig. 1.)

Extract, [by B: D. Walsh and C: V. Riley], entitled "The wavy-striped flea-beetle, *Haltica (phyllotreta) striolata*, Illiger." (Amer. entom., Apr. 1869, v. 1, p. 158-159, 62 cm., fig. 119.)

Habits and ravages, food-plants and description and figure of larva and imago of *phyllotreta striolata*. B: P. M. (3554)

Stillman, J: M. On the origin of the lac [Rec., 2792].

Extract, in Germ. tr., by C. F. Gissler, entitled "Ueber den ursprung des schild-lack's." (Deutsch. amer. apotheker-zeitung, 1 Dec. 1880, jahrg. 1, no. 18, p. 2, 40 cm.) B: P. M. (3555)

Tasker, J. C. W. Naphthaline versus camphor. (Entomologist, Oct. 1882, v. 15, p. 240.)

Use of naphthalin (C₁₀ H₈) recommended as a pestifuge in collections of insects. G: D. (3556)

Tilghman, E: 3d. [Hessian fly.] (Amer. farmer . . . Skinner, 20 Oct. 1820, v. 2, ed. 3, p. 235, 18 cm.)

Process of oviposition of *ecidomyia destructor* on wheat, described from nature. B: P. M. (3557)

Todd, James E. On the flowers of *solanum rostratum* and *cussia chamaerista*. (Amer. nat., Apr. [22 Meh.] 1882, v. 16, p. 281-287, 3 fig.)

Includes remarks on the cross-fertilization of *solanum rostratum* and *cussia chamaerista* by *bombus*, which visits them for pollen. W: T. (3558)

Townsend, C: H: Tyler. On the variation of the elytral markings in *cicindela sexguttata*. (Can. entom., Nov. 1883, v. 15, p. 205-208, 1 fig.)

Describes the variations in number and arrangement of the elytral spots in *cicindela sexguttata*, making eight varieties of them; table to show the relative number of individuals of each variety out of forty-nine specimens taken during 1883. G: D. (3559)

[?Treat, Mary.] A chapter on mites. (Harper's new mo. mag., Apr. 1861, v. 42, p. 607-614, fig. 1-11.)

Figures *acarus domesticus*, *a. lacteus*, *a. rosae*, *a. canna-mellifera*, *a. megashina*, *a. muscida*, *a. contagiosus*, *hydrachna geographicus*, *h. globum*, *h. putens*, and anatomical details of some of these species; figures imago, larva, ovipositor and mandibles of *piophila casei*; with some account of these several insects. B: P. M. (3560)

Treat, Mary.] More about spiders. Harper's new mo. mag., Feb. 1861, v. 42, p. 323-335, fig. 1-21.

Gives enlarged figures of *lycosa gyrophora* and *epicra pusilla*, their eyes and nests; of *theridion schizopoda*, its nest, egg-bag, eyes and claws; of *cladionus pilosus* and nest; of *epicra pilosus*, nest, egg-bag, eyes and mandibles; of *cladionus tangens*, nest, eyes, mandibles and claws; of *cladionus agaricus*, *drassus perna*, *lycosa violacea* and *tegularia textura* and their nests, mandibles and eyes; of *epicra fasciata*, *theridion migratum*, *pholcangium* sp. and *lycosa noctis*, their mandibles and eyes; and of male palpi of two *theridion*, a *segestria*, two *clotho* and an *epicra*; gives some account of these species and of *epicra diadema*, and of the habits, food and fights of some of them. *B. P. M.* [3561]

Trelease, W. On the fertilization of *symplocarpus foetidus* [Rec., 1794].

Reprint, under head, "Symplocarpus foetidus." (GOODALE, G. L. and SPRAGUE, J.: Wild flowers of North America, 1880, pt. 14, p. 120-121.)

Abstract in F. Delpino's "Impollinazione e fecondazione nel cotone e in altre specie" (Rivista botanica, 1880, p. 45).

Abstract, by H. Müller, entitled "Ueber die Befruchtung von *symplocarpus foetidus*." (Bot. Jahresbericht . . . Just, 1879, v. 7, p. 137, 5 cm.) *W. T.* [3562]

Trelease, W. The heterogony of *oxalis violacea*. (Amer. nat., Jan. 1882 [30 Dec. 1881], v. 16, p. 13-19, 5 fig.)

The flowers of *oxalis violacea* are believed to be dimorphic instead of trimorphic. They are visited for nectar by *nomada bisignata*, *ceratina dupla*, *angochlora pura*, *osmia* sp., and *halictus* sp. *W. T.* [3563]

Trelease, W. Protandry of *pastinaca*. (Bot. gazette, Mch. 1882, v. 7, p. 26-27, 9 cm.)

Remarks, apropos of A. F. Foerster's "Pastinaca sativa proterandrus" (op. cit., Feb. p. 21) [Rec., 3551], that most *umbelliferae* are strongly protandrous; and states that in Germany the flowers of *pastinaca* are, according to Hermann Müller, visited by hymenoptera and diptera. *W. T.* [3564]

Troop, J. Proterandry in *amaryllis reginae*. (Bot. gazette, Apr. 1882, v. 7, p. 42, 11 cm.)

The flowers of *amaryllis reginae* are said to be probably fertilized by "some moth with a long proboscis." *W. T.* [3565]

Verrill, Addison Emory. Additional observations on the parasites of man and the domestic animals. (5th ann. rept. secr. Connecticut board agric., for 1871-1872, 1872, p. 321-342.)

Additions to the lists of internal parasites of man, cattle, horse, hog and poultry, given in author's "The internal parasites of domestic animals" . . . 4th ann. rept. [etc.], 1870, p. 162-250 [Rec., 3560] with corrections and additional statements concerning some of these parasites; treats mostly of worms, but mentions *pentastoma sellatum* as a parasite of the horse and the occurrence of *dermatobia novialis** in a woman in Mississippi. *B. P. M.* [3566]

Verrill, Addison Emory. The external and internal parasites of man and domestic animals. [Hartford, Conn., 1870, t-p. cover, 140 p., 23×14, 1 17×6, 11].

Reprint, as pamphlet, of author's "The external parasites of domestic animals" . . . 4th ann. rept. secr. Connecticut board agric., for 1860-1870, 1870, p. 72-122, fig. 1-48 [Rec., 3508] and "The internal parasites of domestic animals" . . . [op. cit., p. 162-250, fig. 49-84] [Rec., 3569].

G. D. [3567]

Verrill, Addison Emory. The external parasites of domestic animals: their effects and remedies. (4th ann. rept. secr. Connecticut board agric., for 1860-1870, 1870, p. 72-122, fig. 1-48) [VERRILL, A. E. The external and internal parasites of man and domestic animals . . . [1870], p. 1-51, fig. 1-48.]

Characterises the several subclasses of insects and orders of hexapods, with illustrations of each; describes and figures the principal species of *psilidae*, *hippoboscidae*, *oestridae*, *cimicidae*, *pediculidae*, *mallophaga* and *acarina*, which are parasitic on domestic animals, with some account of their habits, and of means against them, and mention of related species. *B. P. M.* [3568]

Verrill, Addison Emory. The internal parasites of domestic animals: their effects and remedies [with discussion]. (4th ann. rept. secr. Connecticut board agric., for 1860-1870, 1870, p. 162-256, fig. 49-84.) [VERRILL, A. E. The external and internal parasites of man and domestic animals . . . [1870], p. 51-140, fig. 49-84.]

Additions and corrections, by author, entitled "Additional observations on the parasites of man and the domestic animals," (5th ann. rept. [etc.], 1872, p. 321-342.)

Characterises the orders *cestoda*, *trematoda*, *aranthocephala* and *nematoda*, to which belong the parasitic worms of man and domestic animals; gives a list of some of the more important general works on parasitic worms; gives lists of the internal parasites of man, dog, cat, sheep, cattle, horse, hog and poultry; describes and figures the principal species of these parasites with accounts of their habits, transformations and ravages and means against them; *pentastoma toenioides*, with its immature form *p. denticulatum*, and *p. constritum*, which are *acarina*, are here treated of p. 240-251, fig. 84, and the discussion p. 252-256) contains remarks on means against *gastrophilus equi* by E. S. Hubbard, N. Cressy, — Sedgwick and author. *B. P. M.* [3569]

Walsh, B. Dann and Riley, C.: Valentine, 1. The cotton army-worm. *Noctua anomalis cylindra*, Say. (Amer. entom., July 1860, v. 1, p. 209-212, 145 cm., fig. 147-149)

Description and figures of all stages of *oletra cylindra*, and civil and natural history of this insect, and means of preventing its ravages, mostly compiled from the writings of T. Glover and from J. B. Lyman's "Cotton culture," difficulties and dangers in the pursuit of observations in the southern United States, distinctions between various insects severally termed "army worms." *B. P. M.* [3570]

[Walsh, B: Dann and Riley, C: Valentine.]
The chinch bug. *Micropus leucopterus*, Say. (Amer. entom., 1869, v. 1: May, p. 169-177, 315 em., fig. 122; June, p. 194-199, 221 em., fig. 135-139.)

Reprint, with changes, by C: V. Riley, entitled "The chinch bug: *micropus leucopterus*, Say." (2d ann. rept. state entom. Mo., [Mch.] 1870, p. 15-37, fig. 1-10.)

Supreme noxiousness of *blissus leucopterus* in grain-field; past civil history and cause of former scarcity of this pest; value of a fore-knowledge of its probable future occurrence; its hibernation, seasons, oviposition, prolificacy, swarming, migrations, dimorphism and ravages, and means against it; its enemies, especially *hippodamia maculata*, *coccinella munda*, *chrysopa florabunda*, *anthocoris insidiosus* and *ortyx virginiana*; distinctions between insects having and not having complete metamorphoses; differences in number of annual generations and in periods of development of insects; effects of meteoric conditions on insects; fallacy of H: Shimer's theory of the epizotic disease of the *blissus*, and failure of Shimer's prophecies.

B: P. M. (3571)

[Walsh, B: Dann and Riley, C: Valentine.]
The gigantic root borer. *Prionus laticollis*, Drury. (Amer. entom., Aug. 1869, v. 1, p. 231-234, 123 em., fig. 160-173.)

Description and figure of larva and figure of pupa and imago of *prionus laticollis*; habits, food-plants, ravages and geographical distribution of and means against this species; differences between its imago and that of *p. imbricornis*; figure of imago of *orthosoma cylindricum*; characters of larvae of *prionidae*.

B: P. M. (3572)

[Walsh, B: Dann and Riley, C: Valentine.]
The grape-berry moth. *Penthina vitivora*, Packard. (Amer. entom., May 1869, v. 1, p. 177-179, 74 em., fig. 123.)

Remarks on the appearance of new and the disappearance of old pests; recent occurrence of *penthina vitivora* [eudemis botana] as a pest in grapes; seasons and habits of and means against this insect.

B: P. M. (3573)

[Walsh, B: Dann and Riley, C: Valentine.]
Imitative butterflies. (Amer. entom., June 1869, v. 1, p. 180-193, 202 em., fig. 132-134.)

General exemption of *danaiidae* from and liability of *pieridae* to the attacks of predaceous animals; attempted explanation of these phenomena; protective imitation of *danaiidae* by certain *pieridae*; theory of the origin of this imitation; mimicry of *danais archippus* by *limenitis disippus*, and consequent protection of the latter from foes; hibernating habits and description of larva of the *limenitis*, figures of the larva, pupa, imago and hibernaculum of this species; figure of imago of *danais archippus*.

B: P. M. (3574)

[Walsh, B: Dann and Riley, C: Valentine.]
Leafy oak-gall. (Amer. entom., Sept.-Oct. 1869, v. 2, p. 25, 14 em., fig. 20.)

Answer to inquiry; description and figure of the gall of *lrynips quercus-frondosa*.

B: P. M. (3575)

[Walsh, B: Dann and Riley, C: Valentine.]
The parasites of the human animal. (Amer. entom., Jan. 1869, v. 1, p. 84-88, 180 em., fig. 73-74.)

General prevalence of parasites in nature; brief accounts of *pediculus humanus*, *p. cervicalis*, *p. pubis*, *oestrus hominis*, *pilex irritans*, *p. penetrans*, *acanthia lectularia*, *conorhinus sanguisuga* and *acarus scabiei*; and mention of some other articulated parasites on humans; figures and habits of *reduvius personatus* (larva and imago), of Europe, and of *prates biguttatus*; figure of *conorhinus sanguisuga*; classificatory relations of *pediculina* and *mallophaga*.

B: P. M. (3576)

[Walsh, B: Dann and Riley, C: Valentine.]
The periodical cicada. (Amer. entom., Dec. 1868, v. 1, p. 63-72, fig. 58-64.)

Extract, from p. 68, by authors, with same title. (op. cit., June 1869, p. 202, 7 em.)

Discovery of the existence of 13-year broods of *cicada*, and characterisation of these broods as a new species, *c. tredecim*; dimorphism of this species and of *c. septendecim*; seasons, habits, transformations, oviposition, enemies, diseases, ravages and sting of these species, and chronological statement of their several known broods.

B: P. M. (3577)

[Walsh, B: Dann and Riley, C: Valentine.]
Potato bugs. (Amer. entom., 1868, v. 1: Oct., p. 21-27, fig. 10-19; Nov., p. 41-49, fig. 33-48.)

Remarks on the usual failure of popular writers to distinguish between the several species of insects infesting the potato plant; brief accounts of *gortynia nitela*, *baridius trinotatus*, *sphecia quinquemaculata*, *epicauda vittata*, *macrobasis unicolor*, *m. murina*, *epiota pensylvanica*, *c. marginata*, *lens trilineata* and *epitrix cucumeris*, treating of the geographical distribution, habits, food-plants and seasons of most of them, and giving figures of each in one or more states of growth; full account of *doryphora decemlineata*, its distinctness from *d. juncta*, its migrations, habits and enemies, and means against it; figures of *d. decemlineata* and *d. juncta* in their several states, and of numerous enemies of the former; habits of many of these enemies; inability of larva of *sphecia quinquemaculata* to sting; distinctness of *s. carolina* from this species; geographical distribution of *s. carolina*; characteristics of lepidoptera and coleoptera; vesicant properties of *lyttae*; means against *lyttae*; stercoracious larval protections; poisonousness of larvae of *doryphora decemlineata*; natural fluctuations in the abundance of insects.

B: P. M. (3578)

[Walsh, B: Dann and Riley, C: Valentine.]
The royal horned-caterpillar. *Ceratomia (citheronia) regalis*, Fabr. (Amer. entom., Aug. 1869, v. 1, p. 230-231, 64 em., pl. 1.)

Description of young and of full-grown larva and of pupa of *ceratomia regalis*; figure of larva, pupa and imago; seasons, habits, food-plants, sexual differences, odor and vernacular names of this species; popular dread of it.

B: P. M. (3579)

[Walsh, B: Dann and Riley, C: Valentine.]
A swarm of butterflies. (Amer. entom., Oct. 1868, v. 1, p. 28-29, 34 em., fig. 20-22.)

Record of flights of swarms of *danais archippus*; figures of larva, pupa and imago of this species; *asclepias* its food-plant.

B: P. M. (3580)

[Walsh, B: Dann and Riley, C: Valentine.] Swarms of ladybirds. (Amer. entom., Nov. 1869, v. 2, p. 55, 13 cm.)

Occurrence of countless millions of *coccinellidae* in England; their origin and movements. *B: P. M.* (3581)

[Walsh, B: Dann and Riley, C: Valentine.] The true army-worm: *leucania unipunctata* [sic], Haworth. (Amer. entom., July 1869, v. 1, p. 214-217, 106 cm., fig. 152-155.)

Ravages and beneficial action of *leucania unipunctata* in Missouri, in 1869; favorite localities of occurrence, sudden appearance and disappearance, seasons and enemies of this insect; description and figures of larva, pupa and imago; figure of imago of *exorista militaris*. *B: P. M.* (3582)

[Walsh, B: Dann and Riley, C: Valentine.] Wasps and their habits. (Amer. entom., Mch. 1869, v. 1, p. 122-143, 900 cm., fig. 96-112; p. 164, 1 cm.)

Appendix, by B: D. Walsh, entitled "Appendix to the article on 'Wasps and their habits,' in No. 7." (*op. cit.*, Apr., p. 162-164, 120 cm.)

General account of the habits of North American predatory hymenoptera, i. e., *mfittidae*, *foessores* and *diplopteryga*; structural, classificational and sexual characters of these insects; correspondence of structure with habits, and gradation of habits in insects as regards the making of provision for the care of the young; occurrence of parasites, inquilines and tenants of deserted abodes of these insects; figures of imagoes and special accounts of habits of *chlorion coeruleum*, *bembix fasciata*, *spheci ichneumonea*, *amorphilia pictipennis*, *pepsis formosa*, *stizus grandis*, s. *speciosus*, *peltopus lunatus*, *agenia bombycina*, *tryxylon albistarce*, *ceropales rufiventris*, *cumenes fraterna*, *vespa maculata*, and *polistes rubiginosus*; figure of imago of *tryxylus junceus* and of several abodes of wasps. *B: P. M.* (3583)

[Walsh, B: Dann and Riley, C: Valentine.] The wavy-striped flea-beetle. *Haltica (phylloptreta) striolata*, Illiger. (Amer. entom., Apr. 1869, v. 1, p. 158-159, 62 cm., fig. 119.)

Habits and ravages, food-plants and description and figure of larva and ravages and description and figure of imago of *phylloptreta striolata*, mostly quoted from H. Shimer's "The wavy-striped flea-beetle" (Amer. nat., Dec. 1868, v. 2, p. 514-517) [Rec., 3554]; habits of larva of *ph. nemorum*. *B: P. M.* (3584)

[Watson, J. A. Reputed parthenogenesis of *anarta myrtilli*. Entomologist, Nov. 1882, v. 15, p. 261-262.]

Record of the hatching of unfertilized eggs of *anarta myrtilli*. *G. D.* (3585)

[Webster, Francis M. Leaves from my notebook. (Our home and science gossip, Sept. 1881, v. 5, p. 103, col. 1-2, 44 cm.)

Notes on the food-habits and localities of occurrence of numerous coleoptera. *B: P. M.* (3586)

[Weismann, August. Studien zur Descendenz-theorie. 2. Ueber die letzten ursachen der transmutationen. Leipzig. W. Engelmann, 1876. 1-p. cover, 24+336 p., 5 col. pl., 26X17, 18X10, pamph., M. 10.]

Rev., entitled "Weismann's Final causes of transmutation." (Amer. nat., Feb. 1877, v. 11, p. 109-110.)

Notice. (Entom. nachrichten, 1 April 1877, jahrg. 3, p. 58.)

Rev., by [F. C.] N[oll]. (Zool. garten, 1877, jahrg. 18, p. 142-144.)

"The present work is divided into four divisions, of which the first presents a striking array of facts on the origin of the markings of caterpillars." The author describes the nature and morphology of the markings of larvae of the family *spingidae*, their biological value and tribal development, concluding that the oldest spingid caterpillars were without markings; that the oldest style of markings were longitudinal lines, the later ones oblique streaks, and the last to be developed, the spots"—*Amer. nat.*, 1, c. The second part discusses the relation of changes in the structure of larvae to their changes as imagoes, variation and dimorphism. The third part treats of the changes of the axolotl into *ambystoma*. The fourth part is on the mechanical conception of nature. The plates contain figures of lepidopterous larvae, especially of *spingidae*. [1] Lubbock's "Scientific lectures" ... 1879 [Rec., 3481] contains [lecture 2] [Rec., 3482] an abstract of Weismann's studies on larvae of *spingidae*. *G. D.* (3587)

[Whitney, C. P. Descriptions of some new species of *tabanidae*. Can. entom. Feb. 1879, v. 11, p. 35-38.]

Crit. rev., by E: Burgess. (*op. cit.*, Apr. 1879, p. 80.)

Describes *chrysops cinctulus*, ch. *nigribimbo*, ch. *cursim*, *tabanus superjumentarius*, l. *sparus*, n. new species, from New Hampshire, and *tabanus dodgei* n. sp., from Nebraska. *B: P. M.* (3588)

[Wielowiejski, Heinrich. Studien über die lampyriden. (Zeitschr. f. wissenschaftl. zool., 1 Nov. 1882, bd. 37, p. 354-428, pl. 23-24.)

Abstract, by E: Burgess, entitled "Luminosity of fire-flies." (Science, 9 Mch. 1883, v. 1, p. 150, 22 cm.)

Anatomical, physiological and biological considerations of the luminosity of the imago, larva and eggs of *lampyris* (*l. splendidula* and *l. noctiluca*); anatomy of parts of the related systems, nervous, tracheal, etc.; historical and literature (30 titles). *G. D.* (3589)

[Witlaczil, Emanuel. Zur anatomie der aphiden. (Arbeiten aus dem zool. instit. d. univ. Wien und d. zool. stat. in Triest, 1882, bd. 4, heft 3, p. 397-441, 3 pl.)

Abstract of portions. BUCKTON, G: B. Monograph of British aphides, v. 4, 1883, p. 142-143.)

Abstr., entitled "Anatomy of aphides." (Journ. Roy. micros. soc., Feb. 1883, s. 2, v. 3, p. 49-51.)

General external and internal anatomy of *aphididae* considered by different systems of organs. *G. D.* (3590)